



HD 6450 2GB DDR3

11190-09

Product Specification

SAPPHIRE

| **CONFIDENTIAL UNDER NDA** |

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PRODUCT OVERVIEW

I. Introduction:

Packed with the latest GPU technologies, the Radeon™ HD 6450 graphics processor is a next-generation visual upgrade that delivers Eyefinity multi-display technology, HDMI 1.4a for stereoscopic (3D) displays as well as 2nd generation support for DirectX 11 for the most versatile solution for everyday computing.

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II. Features:

1. TeraScale 2 Unified Processing Architecture
 - 160 Stream Processing Units
 - 8 Texture Units
 - 16 Z/Stencil ROP Units
 - 4 Color ROP Units
2. DirectX® 11 capable graphics
3. Open GL 4.1 Support
4. AMD HD3D Technology

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5. AMD Catalyst™ graphics and HD video configuration software
6. **AMD App Acceleration**
 - ◆ OpenCL 1.1 Support
 - ◆ DirectCompute 11
 - ◆ Accelerated video encoding, transcoding, and upscaling^{2,5}
 - UVD 3 dedicated video playback accelerator
 - ◆ MPEG-4 AVC/H.264
 - ◆ VC-1
 - ◆ MPEG-2 (SD & HD)
 - ◆ Multi-View Codec (MVC)
 - ◆ MPEG-4 part 2 (DivX, xVid)
 - ◆ Adobe Flash
 - Enhanced video quality features
 - ◆ Advanced post-processing and scaling
 - ◆ Dynamic contrast enhancement and color correction
 - ◆ Brighter whites processing (blue stretch)
 - ◆ Independent video gamma control
 - ◆ Dynamic video range control
 - Dual-stream 1080p playback support
 - DXVA 1.0 & 2.0 support
7. Integrated HD audio controller
 - Output protected high bit rate 7.1 channel surround sound over HDMI or DisplayPort with no additional cables required
 - Supports AC-3, AAC, Dolby TrueHD and DTS Master Audio formats
8. Cutting-edge integrated display support
 - HDMI 1.4a with Stereoscopic 3D Frame Packing Format, Deep Color, xvYCC wide gamut support, and high bit-rate audio
 - i. Max resolution: 1920x1200
 - Dual-link DVI with HDCP
 - i. Max resolution: 2560x1600
 - VGA
 - i. Max resolution: 2048x1536
9. **AMD PowerPlay™** power management technology
 - Dynamic power management with low power idle state

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10. Microsoft Windows 7 Support

III. System Requirements:

- PCI Express® based PC is required with one X16 lane graphics slot available on the motherboard
- 400 Watt or greater power supply recommended (500 Watt for AMD CrossFireX™ technology in dual mode)
- Certified power supplies are recommended. Refer to <http://ati.amd.com/certifiedPSU> for a list of Certified products
- Minimum 1GB of system memory
- Installation software requires CD-ROM drive, a keyboard, a mouse, and a display
- DVD playback requires DVD drive and a DVD
- Blu-ray™ playback requires Blu-ray drive and a Blu-ray disc

IV. Operating System Support:

- Windows XP(32Bit/64Bit) ;
- Windows Vista(32Bit/64Bit)
- Windows Media Center Edition 2005
- Windows 7(32bit/64bit)
- **Windows 10(32bit/64bit)**

V. SKU Specification:

SKU	11190-09
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GPU	Radeon HD 6450
Bus Interface	PCI-E 2.1 x16
Memory	2048MB / 64-bit DDR3
Clock Speed	625 MHz Eclk /Effective 1334 MHz Mclk
Cooling System	1 Slot single fan;
Bracket	Full Height
Dimension	190(L)x22(W)x94(H) mm
Display Support	SL-DVI-D HDMI VGA
HDCP	Yes
Crossfire Support	Native Software Crossfire
External Power	none
Accessories	Low Profile bracket
Software	Driver CD

VI. Maximum Display Resolution:

- D-Sub(VGA): 2048 x 1536
- DL-DVI-I: 2560 x 1600
- HDMI 1.4a: 1920 x 1200

NOTE:

Disclaimer: Product specification subjects to change, product might not be exactly as shown. While every precaution has been taken in the preparation of the material, no responsibility for errors or omissions is assumed. Neither is any liability assumed for damages resulting from the use of the information contained herein.